



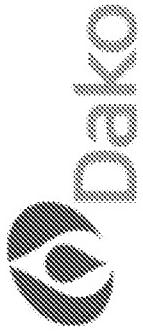
Application No. 10/539,562

Interview with Examiner

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Agenda

- Overview of Claimed System and Method
- Differences in References



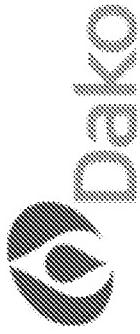
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Draft Claim Amendment

(temperature regulation of slides in continuous loading system)

75. (Currently Amended) An automated sample processing system for processing at least one sample on at least one carrier according to a processing protocol, comprising:
at least one removable reagent container positioned within a first plurality of drawers in a reagent section;
carrier retention devices for retaining said sample during said processing, the devices being positioned within a second and a third plurality of drawers in at least two one carrier section[s], respectively, the at least two carrier sections being separated by the reagent section;
an active temperature regulation element to which said at least one sample is responsive, wherein said active temperature regulation element regulates the temperature of said at least one sample at a set point and to within a tolerance specified by the protocol; and
a moveable robotic member for dispensing fluid on the at least one carrier; wherein the at least one carrier is inserted or removed during the processing protocol without interrupting a processing of another sample movement of the robotic member.

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Draft Claim Amendment

(temperature regulation of reagents in drawers of continuous loading system)

102. (Currently Amended) An automated sample processing system for processing at least one sample on at least one carrier according to a processing protocol, comprising:

at least one container having a reagent therein positioned within a first plurality of drawers in a reagent section for application to said at least one sample during said processing;
carrier retention devices for retaining said sample during said processing, the devices being positioned within a second and a third plurality of drawers in at least two carrier sections, respectively, the at least two carrier sections being separated by the reagent section;

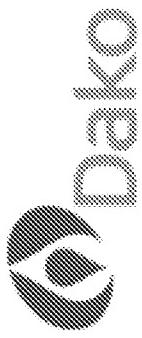
a reagent temperature control element to which said reagent in said at least one container is responsive;

a sample temperature control element to which said at least one sample is responsive, wherein said sample temperature control element regulates the temperature of said at least one sample at a set point and to within a tolerance specified by the protocol; and

a moveable robotic member for dispensing fluid on the at least one carrier, wherein the at least one carrier is inserted or removed during the processing protocol without interrupting movement of the robotic member

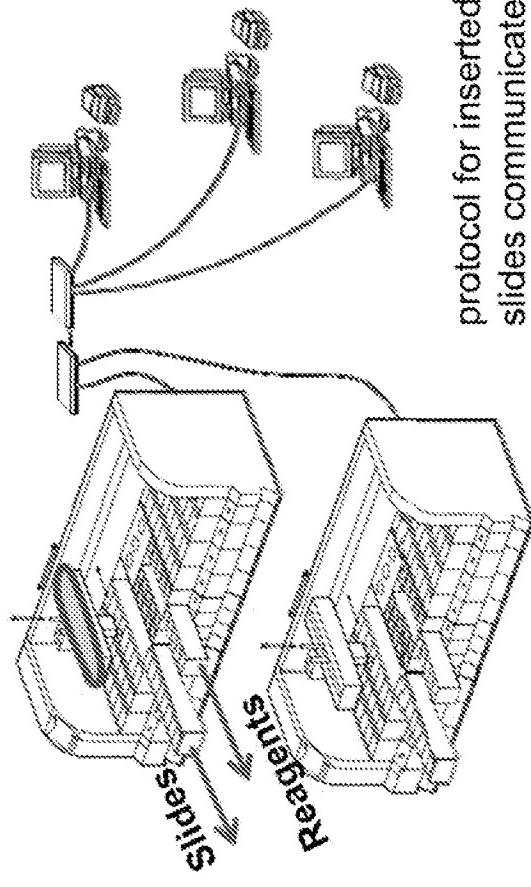
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Continuous Workflow Stainer Network V/S. Batch Mode Systems Cited



Applicant – continuous staining network

insert/remove slide racks & reagent racks while
robot continues processing other racks

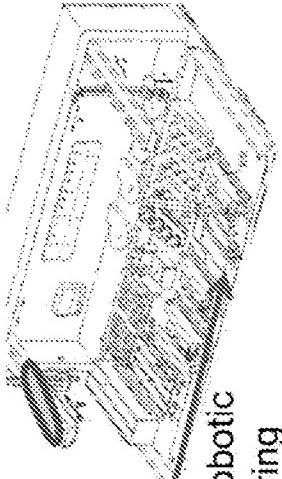
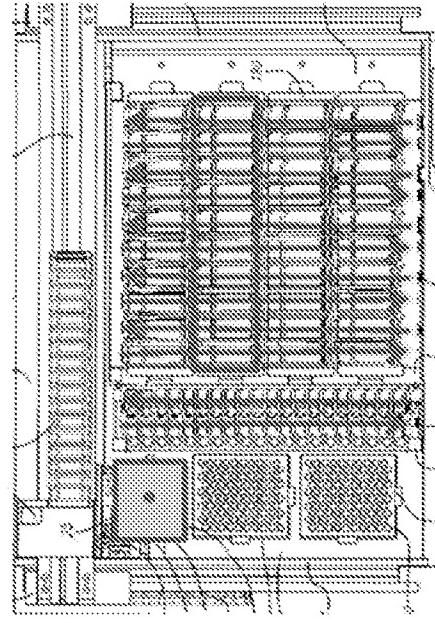


software monitors
insert/remove while
continuing to process

Kalra – batch staining

When users opens lid, robot stops (for safety reasons)

User can request to load stat or continuous slides wherein insertion
or removal of slides/reagents necessarily interrupts *robotic*
processing of other slides in other trays since dispensing robot
must stop moving and apparatus completes processing on a
tray and then signals user



Reichler – batch processing

samples loaded /
unloaded prior to robotic
processing, not during

Batch Slide Loading – Kalra
Dispensing robot must be interrupted to load or
unload



Independent fluidic manifold-based sample processing system

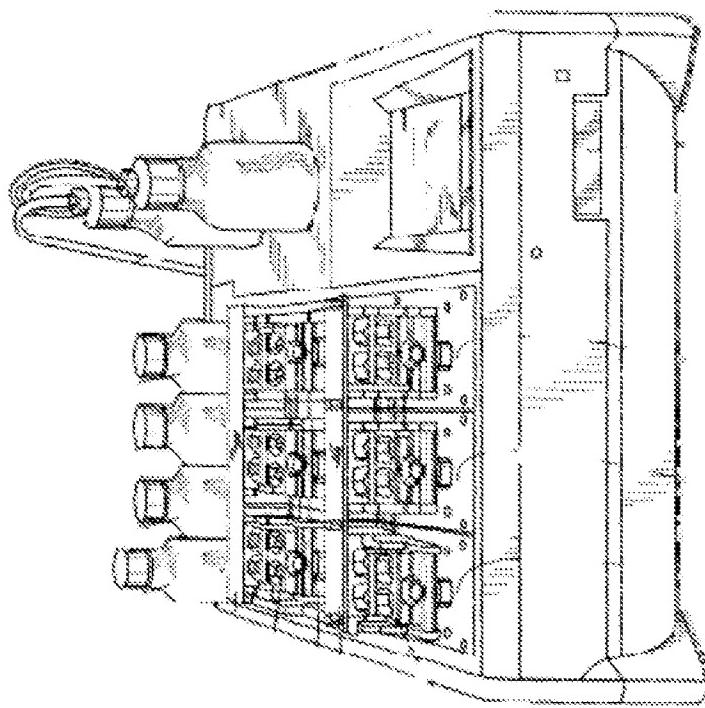


Custance – cited by Examiner in Office Action as primary 103(a) reference

Regulates temperature of samples, but not reagents

System has no robotic dispenser nor robotic motion. Rather it is a fluidic manifold-based system not suitable loading batches of sample carriers either in historical batch mode or continuous loading batches since samples are loaded manually into processing chambers

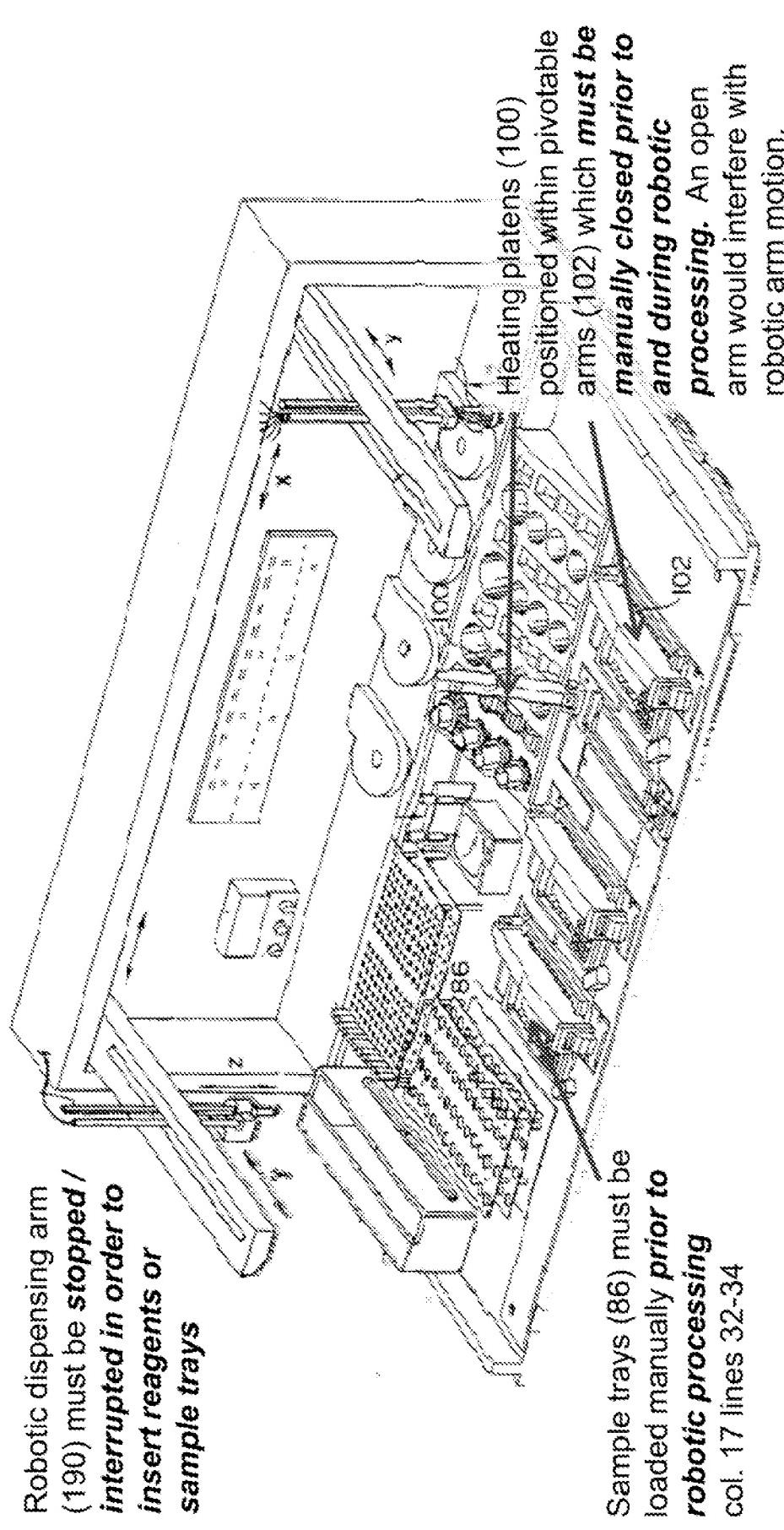
Not combinable with system using robotic dispensing of reagents,



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Batch Slide Loading – Reichler

(Dispensing robot must be interrupted to load or unload reagents and slides)



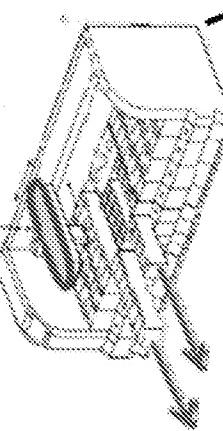
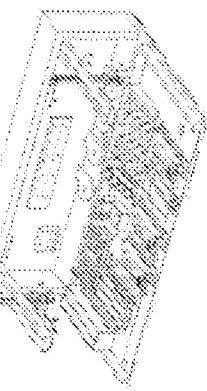
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Timeline

Becton Dickinson System
“Riechler” cited in 103(a) OA
batch (not for slides)

Dako Eridan

continuous loading w/
temp control slides & reagents

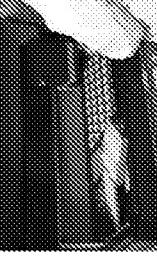
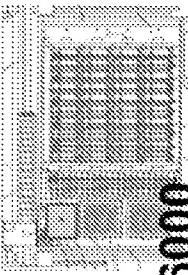


Biocare IntelliPath

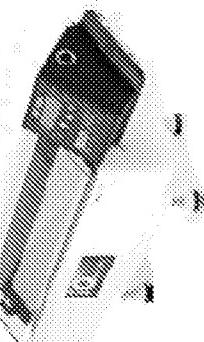
continuous loading w/
temp control slides & reagents



Biogenex i6000
“Kalra” cited in OA
batch



Biogenex IQ Kinetic Slide Stainer
Biogenex Xmatrx
batch
no temp ch



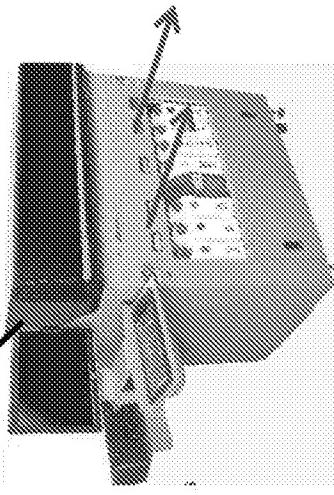
2003

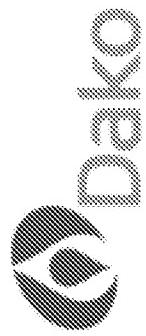
batch

2008

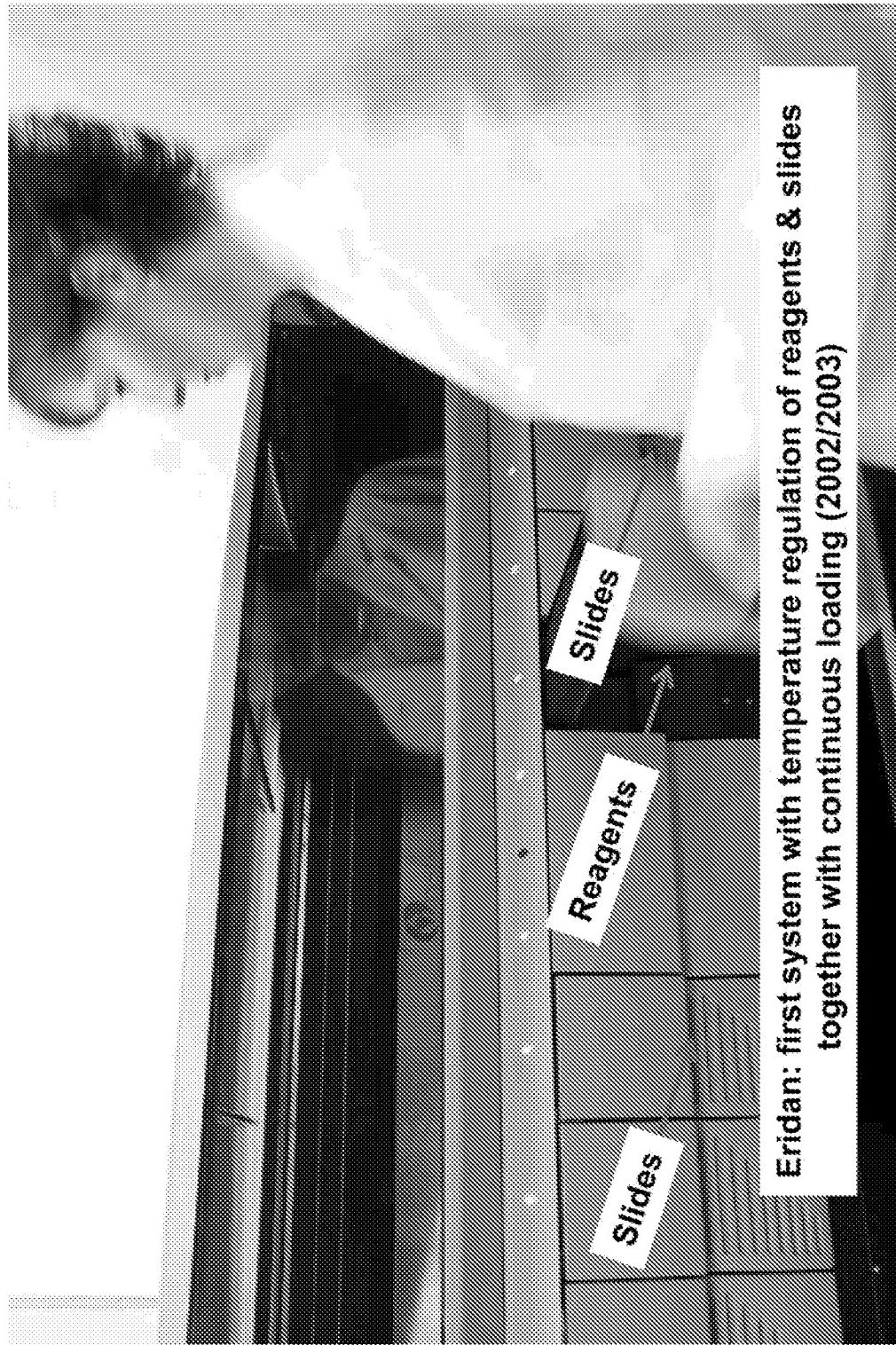
Biogenex Xmatrx II

continuous loading w/
temp control slides & reagents



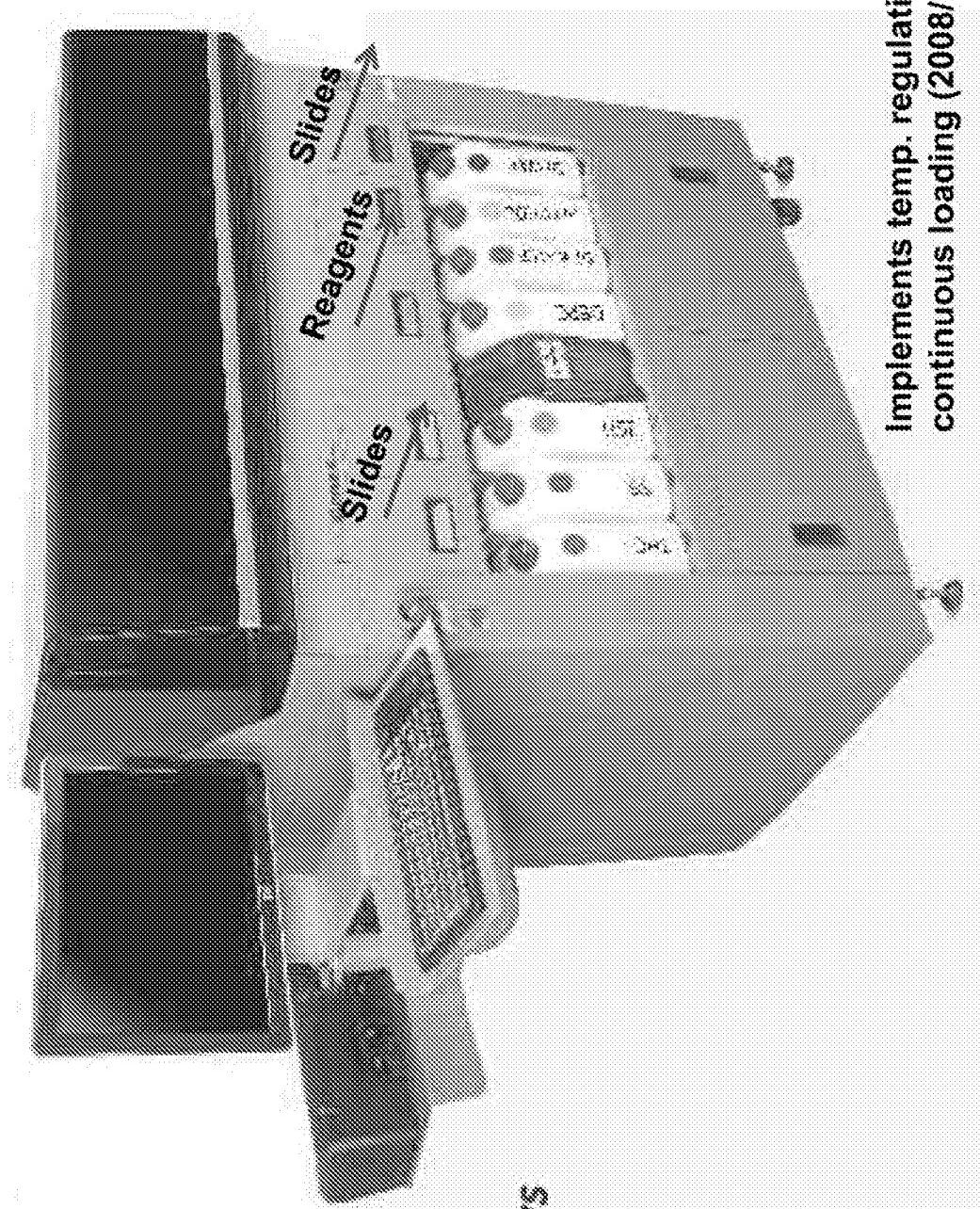
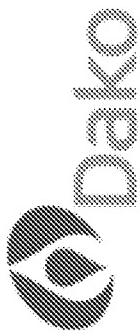


Dakko Embodiment of the Invention (2003)



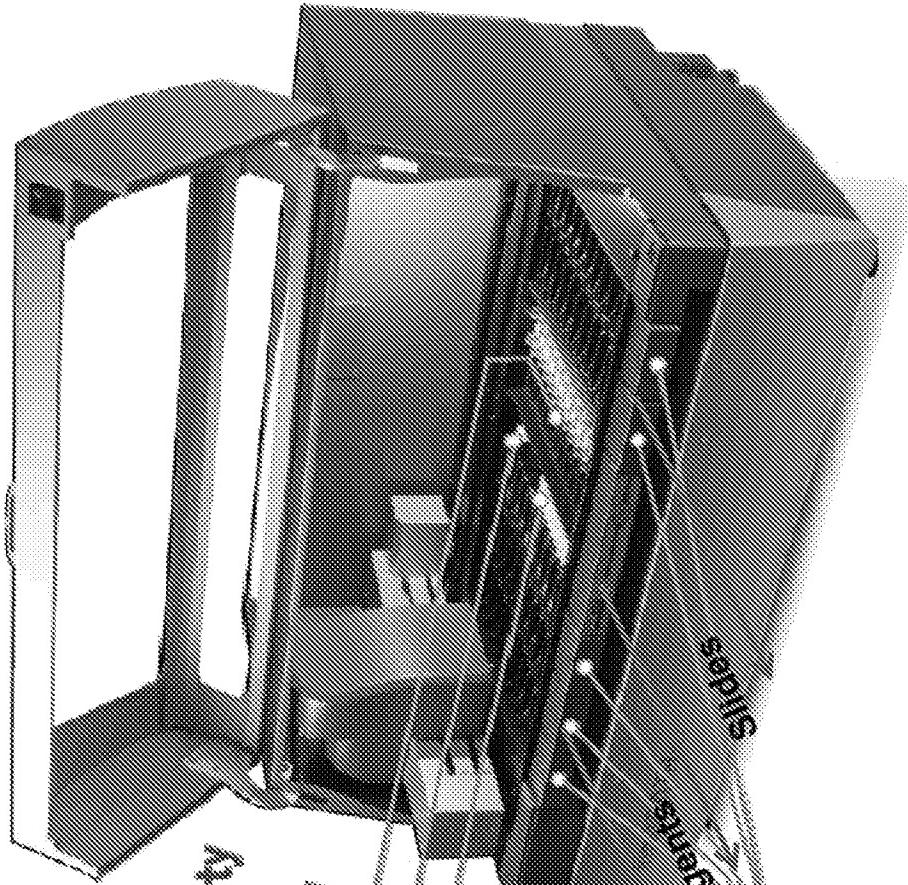
Eridan: first system with temperature regulation of reagents & slides
together with continuous loading (2002/2003)

Competitors have recently implemented
Dako Invention (2008/2009)



Implements temp. regulation w/
continuous loading (2008/2009)

Competitors have recently implemented
Dako Invention (2008/2009)



Enjoy the Freedom
of Maximum Flexibility
& Productivity

Temp regulation

Wash

Slides
Reagents
Slides
Slide Carrier

Flexible, fully open system

Customized washes available

Convenience, productivity and ease of use

High speed and throughput

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